

Claims

1. A lighting device which is adapted to be converted between a flashlight mode and an area light mode, said device including a housing to receive a power supply, a light source associated with said housing and a tubular lens surrounding said light source, a reflector mounted to said device so as to slide relative to said tubular lens, said reflector including an aperture through which said light source can pass, said aperture having a shutter associated therewith whereby said shutter closes said aperture when said reflector is in a position which allows said device to be used in said area light mode.
2. A lighting device as claimed in claim 1, wherein said shutter is biased to close said aperture.
3. A lighting device as claimed in claim 1 or 2, wherein said shutter is a panel hinged to a rim of said aperture.
4. A lighting device as claimed in claim 1 or 2, wherein said shutter is a planar member having a shutter aperture which can expand and contract.
5. A lighting device as claimed in claim 4, wherein said planar member is an elastic membrane.
6. A lighting device as claimed in claim 4 or 5, wherein said shutter aperture closes or has a diameter which is smaller than the diameter of the light source, when said lighting device is in an area light mode.
7. A lighting device as claimed in any one of claims 1 to 6, wherein said shutter aperture will open and or expand by means of said light source pushing through the shutter aperture.
8. A lighting device as claimed in any one of claims 1 to 7, wherein said shutter has at least one surface of a reflective light colour, white or specular finish.
9. A lighting device as claimed in any one of claims 1 to 8, wherein said shutter is made of a polymeric material.
10. A lighting device as claimed in any one of claims 1 to 9, wherein said shutter includes a reflective surface facing said light source when said aperture is closed.
11. A lighting device as claimed in any one of claims 1 to 10, wherein said light source will push said shutter to an open condition as said light source passes through said aperture.
12. A lighting device as claimed in any one of claims 1 to 11, wherein said aperture is located at one end of a cylindrical extension formed as part of said reflector.

13. A lighting device as claimed in any one of the preceding claims, wherein said tubular lens includes at least one friction means to provide friction against the movement of said reflector relative to said tubular lens.
14. A lighting device as claimed in claim 13, wherein said friction means is an O ring.
15. A lighting device as claimed in any one of the preceding claims, wherein light source is an LED.
16. A lighting device as claimed in any one of the preceding claims, wherein said reflector is mounted in a tubular member which is in turn mounted for sliding on said tubular lens.
17. A lighting device being substantially as herein described with reference to figures 1 and 2, or figures 3 and 4 of the drawings.